

# Radiation Safety in Pediatric Imaging: Balancing Diagnostic Benefit and Risk

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## Introduction

Pediatric imaging is a critical component of modern medicine, providing essential diagnostic information for children. However, the use of ionizing radiation in these procedures carries inherent risks, particularly for the developing tissues of children. The primary goal of this review is to explore the delicate balance between the diagnostic benefits of imaging and the potential risks of radiation exposure. This involves a thorough understanding of the ALARA (As Low As Reasonably Achievable) principle and its application in various pediatric imaging modalities, including X-rays, CT scans, and MRI. The review also discusses the role of multidisciplinary teams in optimizing patient care while minimizing radiation exposure.

The purpose of this review is to provide a comprehensive overview of the current state of radiation safety in pediatric imaging, highlighting key challenges and offering practical strategies for risk reduction.

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